

TIKHOTSKIY, K. N.

Sur la de'formation et la transformation k des congruences. Matem. SB., 5 (47), (1939), 297-306.

SO: Mathematics in the USSR, 1917-1947
edited by Jurosh, A. G.,
Markushevich, A. I.,
Rashevskiy, P. K.
Moscow-Leningrad, 1948

TIKHOTSKIĭ, K. N.

Nomogrammy dlia vychisleniia opredelitelei Gurvitsa. (Avtomatika i telemekhanika, 1948, v. 9, no. 2, p. 152-155, diagsr.)

Title tr.: Nomograms for calculating the Hurwitz determinants.

Extensive summary on Microfilm NEG. A102 on file in DLC Slavic Room. (In English.)

TJ213.A453 1948

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

TIKHOTSKIY, K. N.

La transformation k des complexes. Matem. SB., 16 (58), (1945), 87-100.

SO: Mathematics in the USSR, 1917-1947
edited by Jurosh, A. G.,
Markushevich, A. I.,
Rashevskiy, P. K.
Moscow-Leningrad, 1948

Timonchik, R.P.

"Nomograms for Computing Curvits' Determinators."

[Moscow Aviation Institute]

Avto i Tele, IX, 2, 48.

TIKHOV, Aleksandr Gavrilovich; BENYUMOV, O.M., red.; GUBIN, M.I., tekhn.red.

[Collective and state farms of Voronezh Province in the drive to increase production of meat and milk] Kolkhozy i sovkhozy Voronezhskoi oblasti v bolr'be sa uvelichenie proizvodstva miassa i moloka. Moskva, Izd-vo "Znanie," 1957. 37 p. (Vsesoyuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani. Ser.5, no.23) (MIRA 11:2)

(Voronezh Province--Stock and stockbreeding)
(Voronezh Province--Dairing)

ILINOV, A. F. and ILINOV, N. N.

"Verifying a Method for Determining the Specific Gravity of Viscous Dark Petroleum Products", p 171, in the Monograph "Investigation and Use of Petroleum Products", edited by N. G. Fuchkov, Gostoptekhizdat, Moscow-Leningrad, 1950.

TIKHOV, G., akademik

There is no useless knowledge. IUn.tekh. 3 no.2:18-20
F '59. (MIRA 12:1)

1. AN KazSSR, chlen-korrespondent AN SSSR.
(Research)

S/269/63/000/002/024/037
A001/A101

AUTHOR: Tikhov, G. A.

TITLE: Brief results of Mars observations in the Sector of astrobotany during the period of great opposition of 1956

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 2, 1963, 62, abstract 2.51.498 (In collection: "Rezul'taty nablyudeniya Marsa vo vremya velikogo protivostoyaniya 1956 g. v.SSSR", M., AN SSSR, 1959, 6 - 9)

TEXT: A Bredikhin astrograph and a meniscus A3T-7 (AZT-7) telescope were used. Visual observations of Mars were conducted with light filters, accompanied by drawings of the planet. Photographing was also performed through light filters. Spectrophotographic and photoelectric observations were also carried out. The author describes changes in the color of the various Martian regions, appearance of dusty haze in September, accompanied by the formation of a bright ring around the inner limb of the disk, as well as seasonal changes of polar caps and other phenomena on the disk of the planet. Various considerations are expressed on the possible interpretation of these phenomena.

[Abstracter's note: Complete translation]

I. Lebedeva

Card 1/1

TIKHOV, GAVRIIL ADRIANOVICH

Deceased

TIKHOV, G.A.; PEKELIS, V., red.; TERUSHIN, M., tekhn. red.

[Astrobiology] Astrobiologiya. Moskva, Izd-vo TsK VLKSM
"Molodaia gvardiia," 1953. 65 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Tikhonov)
(Life on other planets)

AGISHEV, A.P.; TIKHOV, M.N.

Nature of the inter-reservoir gas flow in an acting well. Gaz.
prom. 9 no.1:8-13 '64. (MIRA 17:12)

TIKHOV, M. N.

PA 9T80

USSR/Petroleum - Well Drilling
Oil wells

May 1947

"The Influence of Perforations in Drive-casings
on the Productivity of Oil Wells," M. N. Tikhov
(City of Grozny), 6 pp

"Neftyanoye Khozyaystvo" Vol 25, No 5

Theoretical aspects of the effect of subject
perforations given in formulas and graphs.

9T80

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 88 (USSR) SOV/124-57-4-4485

AUTHOR: Tikhov, M. N.

TITLE: On the Inflow of a Liquid in a Cylindrical Reservoir to a Perforated-strainer Well Located at Its Center (O pritoke zhidkosti v tsilindricheskom plaste k perforirovannoy tsentral'noy skvazhine)

PERIODICAL: Tr. 3-go Vses. matem. s"yezda. Vol I. Moscow, AN SSSR, 1956, pp 212-213

ABSTRACT: Bibliographic entry

Card 1/1

2/19/79/000/04/020/020
R031/R413

AUTHOR: Zolotarev, V.K.

TITLE: The Scientific-Technical Conference at Khar'kov
Aviation Institute

PERIODICAL: Ivestiye vysshikh uchebnykh zavedeniy. Aviatsionnaya
tehnika, 1959, Nr 4, pp 161-165 (USSR)

ABSTRACT: In May 1959, the 16th Conference of Professorial and
Teaching Staff took place.

Mathematics and Mechanics Section. The following papers
were read: "A Spectral Representation of the Theory
of Asymptotic Turbulence" by Candidate of Physical
and Mathematical Sciences G.M. Tarasov; "Some
Axioms for Functions with Positive Real Parts" by
Assistant G.S. Shpak; "Existence, Uniqueness and
Continuity Theorems for Mixed Systems of Functional
Equations" by Docent, Candidate of Physical and
Mathematical Sciences M.N. Titkov; "On the Application
of Bell and Chaynevsky Formulas to the Solution of Some
Problems in the Synthesis of Four Bar Linkages" by
Docent, Candidate of Physical and Mathematical Sciences
Ya.L. Geronimus; "The Influence of the Structural
Properties of Functions on the Convergence of Most
Everywhere of their Conjugate Functions" by
Docent, Candidate of Physical and Mathematical Sciences
B.I. Golitskiy.

General Technological Section. The following papers were
read: "The Relation Between the Compton Length of Waves,
the Length of de Broglie Waves and the Acceleration
Potential for High Energy Particles" by Docent,
Candidate of Physical and Mathematical Sciences
I.Ya. Gerasimov; "The Problem of Determining the Heat
Transfer Coefficient of Conductors" by Senior Instructor
P.P. Buzulov; "An Electron-Graphical Method of
Investigating the Structure of Matter" by Assistant
I.Ya. Suravskiy; "On the Results of the VIIIth
Mendeleyev Conference of Chemists" by Assistant
Docent, Candidate of Chemical Sciences Z.I. Kresh.

Papers were read: "On the Friction Section. The following
Passage of Transients in an Electric Drive with a
Controlling Exciter" by Docent, Candidate of Technical
Sciences M.M. Peral'ter; "The Experimental Determination
of the Resonances in Synchronous Machines" by Senior
Instructor S.I. Mikhlin; "An Experimental Method
of Investigating Electric Fields" by Assistant
A.I. Lobanov; "Discrete Transform of Current into
Code Signals with a Digital Filter" by Assistant
Docent, Candidate of Technical Sciences G.M. Rulavskiy.

"The Application of Infrared Instruments in Aviation"
by Docent, Candidate of Technical Sciences I.D. Arsenov.
General Engineering Section. The following papers were
read: "The Adaptation of a Thermobaric Chamber to the
Simulation of the Sinking of a Mine Shaft in Quicksand
and Certain Results of Investigations" by Docent, Candidate
of Technical Sciences S.V. Hlyshenko; "Determination of the
Mechanical Characteristics of Sand at Different
Temperatures and Humidities" by Docent, Candidate of
Technical Sciences S.V. Hlyshenko; "Friction and
Abrasion in Ceramics" by Docent, Candidate of Technical
Sciences G.I. Golitskiy; "The Construction of Multi-
Satellite Flight Control" by Assistant V.A. Natchukin.

"The Influence of the Construction of the Pathways of
Threaded Connections" by Assistant V.M. Pechenko; "The
Investigation of Ceramics Under Pressure" by Assistant
A.S. Efremov.

Card 3/11

Card 4/11

TIKHOV, Mikhail Nikolayevich; AGISHEV, A.P., otv. red.;
ALYAB'YEV, N.Z., red.

[Mathematical theory of liquid and gas flow to a central
imperfect well] Matematicheskaya teoriya dvizheniya zhid-
kosti i gaza k tsentral'noi nesovershennoi skvazhine.
Khar'kov, Izd-vo Khar'kovskogo univ., 1964. 154 p.
(MIRA 17:11)

GUREVICH, S.M.; DIDKOVSKIY, V.P.; TIKHOV, N.N. (Moskva)

Electric slag welding of BT5-1 titanium alloys. avtom.svar. 15
no.5:78-84 My '62. (MIRA 15:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni
Ye.O.Patona AN USSR. (for Gurevich, Didkovskiy).
(Titanium alloys--Welding)

TIKHONOV, V. I.

Automatic control of internal combustion engines. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1947. 62 p. (49-13140)

TJ1055.T5

TIKHOV, V. I.

Avtomaticheskaia zashchita dvigatelei vnutrennego sgoraniia. Moskva,
Izd-vo Min. kommun. khoziaistva RSFSR, 1947. 62 p. diagrs.

Bibliography: p. 60-(61)

Automatic protection of internal combustion engines.

MH NNC

DLC: TJ1055.T5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

TIKHOV, V. I.

PA 152T26

USSR/Engineering - Engines, Diesel
Safety Devices

Dec 49

"Automatic Control and Protection on Diesel In-
stallations," V. I. Tikhov, 3 1/2 pp

"Energet Byul" No 12

Gives general survey of various safety devices which
can be fitted to Diesels to prevent damage due to
oil or cooling water failure, overspeeding, etc.

153T26

TIKHOV, Yu.P.

Effect of various levels of humidity on the physiological functions of the bodies of workers in deep mines. Trudy Sem.po gor.teplotekh. no.4:168-170 '62. (MIRA 15:8)

1. Donetskii institut fiziologii truda.
(Humidity--Physiological effect) (Mine ventilation)

KONSTANTINOV, N.N.; TIKHOVA, A.P.

Laboratory study of changes in vapor tension and specific weight
of gasoline during its evaporation in storage and transportation.
Trudy VNII NP no.5:3-15 '56. (MLRA 9:8)
(Gasoline--Transportation) (Evaporation)

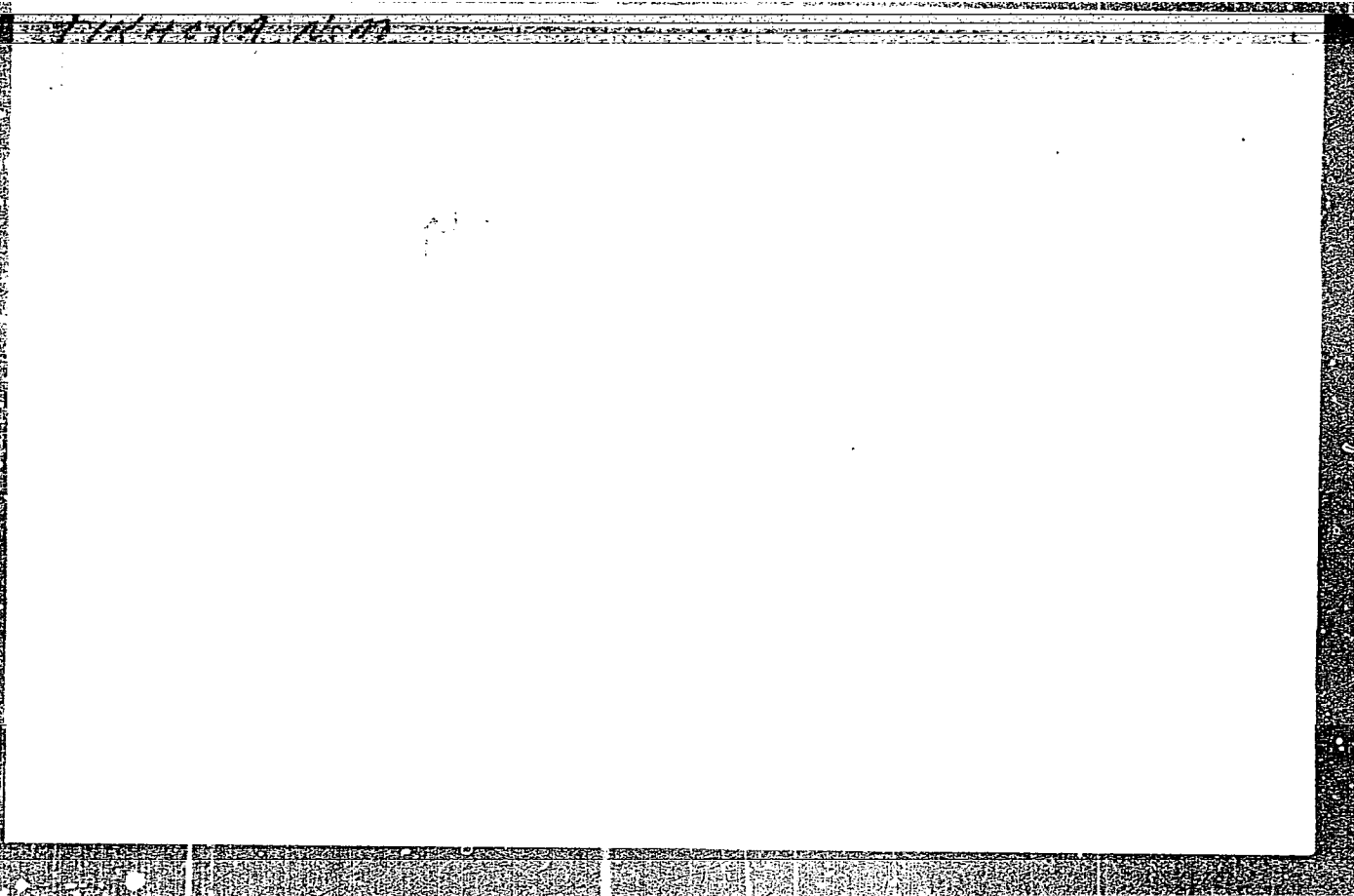
TIKHOVA, I.A.

Roseola culture in typhoid and paratyphoid. Zhur.mikrobiol.epid.1
immun. no.1:45 Ja '54. (MLRA 7:2)

1. Iz kliniki infektsionnykh bolezney Voronezhskogo meditsinskogo
instituta. (Typhoid fever) (Paratyphoid fever)

"APPROVED FOR RELEASE: 07/16/2001

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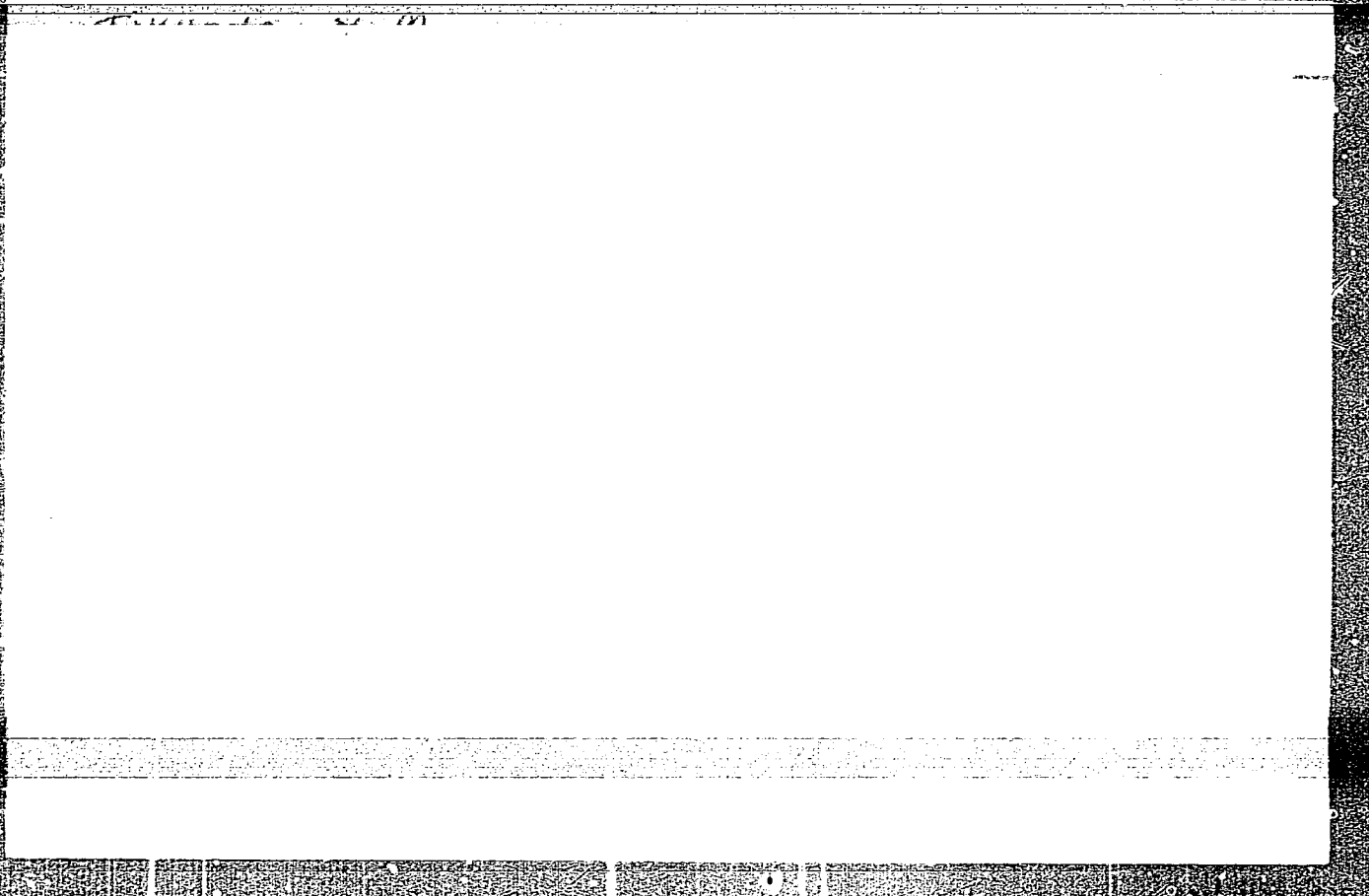


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APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755620017-7"

1. KLOBN, I. F.
 KOLOBNEV, I.F.; KRYMOV, V.V.; POLYANSKIY, A.P.; AL'TMAN, M.B., kand.tekhn.
 nauk, retsenzent; ZAKHAROVA, G.V., kand.tekhn.nau, retsenzent;
 TIKHOVA, U.M., kand.tekhn.nauk, retsenzent; ARBUZOV, B.A., inzh.,
 retsenzent; ASTAULOV, V.S., inzh., retsenzent; BOYKOVA, L.T., inzh.
 retsenzent; KITARI-OGIU, G.S., inzh.retsenzenty; KRYVIN, B.T., inzh.,
 retsenzent; LOTAREVA, O.B., inzh., retsenzent; SMIRNOVA, T.I., inzh.,
 retsenzent; KHODOROVSKIY, G.L., inzh., retsenznet; RUBTSOV, N.N., prof.
 doktor tekhn.nauk, red.; KOLOBNEV, I.F., kand.tekhn.nauk., red.
 SIROVIN, A.I., inzh. red.izd-va; MODEL', B.I., tekhn.red.

[Founder's handbook; shape founding with aluminum and magnesium
 alloys] Soravochnik liteishchika; fasonnoe lit'e iz aliuminevykh i
 magnievykh splavov. Pod obshchei red. N.N.Rubtsova. Moskva, Gos.
 nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 482 p. (MIRA 11:2)
 (Founding) (Aluminum--Metallurgy)
 (Magnesium--Metallurgy)

AUTHOR: Tikhova, N.M., Candidate of Technical Sciences and
Blukhina, V.A., Engineer. 129 - 8 - 4/16

TITLE: Influence of notches on the mechanical properties of the
(magnesium) alloy ML5. (Vliyaniye nadreza^{no} mekhanicheskiye
svoystva splava ML5.)

PERIODICAL: "Metallovedeniye i Obrabotka Metallov" (Metallurgy and
Metal Treatment), 1957, No.8, pp. 16 - 19 (U.S.S.R.)

ABSTRACT: This alloy, which has a high strength and ductility, and
a high notch sensitivity at room temperatures is extensively
used in the Soviet Union. The aim of this paper was to invest-
igate the influence of notches on the mechanical properties of
this alloy in the heat-treated state at room and elevated
temperatures. The composition of the alloy is: 8.7 - 9% Al,
0.5% Zn and 0.4 - 0.46% Mn. It was established that a ring-
shaped notch leads to a considerable decrease in strength of
the alloy at room temperature and at 100 C. However, at
temperatures between 100 and 150 C the strength of the notched
specimens remains equal at 22.5 - 23 kg/mm² and is higher than
the strength of smooth specimens, which drops uniformly in
this temperature range. On increasing the temperature to
175 C, the strength of the smooth specimens is 18 kg/mm². Long
duration tests until fracture at 150 - 200 C showed that a
notch increases the time to failure of the specimen. The

Card 1/2

Influence of notches on the mechanical properties of the
(magnesium) alloy M15. (Cont.) 129 - 8 - 4/16

influence of the notch in this material depends on the test
temperature; at room temperature and at 100 C the strength of
notched specimens is lower, whilst at 150 C and higher tempera-
tures the performance of the notched specimens is better than
that of smooth specimens.

There are 3 tables.

AVAILABLE:

Card 2/2

Tikhova, N. M.

129-3-8/14

AUTHORS: Tikhova, N. M., Candidate of Technical Sciences and
Afanas'yeva, L. A., Technician.

TITLE: Investigation of Alloys of Magnesium with Various Rare
Earth Metals (Issledovaniye splavov magniya s razlichnymi
redkozemel'nyimi metallami).

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No.3,
pp. 38-41 (USSR).

ABSTRACT: In this paper, the results are described of investi-
gations of the causes of the favourable influence of Nd
on the mechanical properties of alloys as compared with the
properties of other rare earth metals. Experimental results
are compared on the solubility of various rare earth metals
in magnesium at various temperatures of heating prior to
hardening. The lattice parameters of binary alloys were
measured and the diffusion speed of various rare metals
in magnesium were qualitatively determined. The
solubility of the rare earth metals at the temperatures
of heating prior to hardening were ascertained by micro-
structural analysis. After deformation by means of a
hammer, specimens containing 3 and 6% Nd were annealed
for 2 hours at various temperatures and then quenched in
water. Metallographic analysis of the specimens has

Card 1/2

129-3-8/14

Investigation of Alloys of Magnesium with Various Rare Earth Metals.

shown that the melting point of the eutectic of magnesium-neodymium alloys is about 548-550°C. The measured values of the lattice parameters of the binary alloys are entered in Table 4. In accordance with the obtained results, the greater influence of Nd as compared with other rare earth metals on improving the properties of magnesium at room and at elevated temperatures is attributed to the following: Nd has the highest solubility in magnesium and, therefore, it has the highest hardening effect on the alloy after heat treatment; the speed of diffusion of Nd into magnesium is smaller than that of any other studied rare earth metals which is the reason for the lower softening speeds of this alloy at elevated temperatures and thus also for the higher heat resistance of the Mg-Nd alloys. There are 4 figures and 5 tables.

AVAILABLE: Library of Congress.

Card 2/2

L 1055-66 ENT(m)/EPF(c)/EPF(n)-2/EWP(t)/EWP(b) IJP(c) MJW/JD/WH/JG/WB

ACCESSION NR: AP5022382

UR/0136/65/000/009/0079/0082
669.721.5:66.046.52

AUTHOR: Lashko, N. F.; Morozova, G. I.; Tikhova, N. M.
44,55 44,55 44,55

TITLE: Modifying magnesium alloys with zirconium and the lanthanides
44,55, 27

SOURCE: Tsvetnyye metally, no. 9, 1965, 79-82

TOPIC TAGS: magnesium alloy, zirconium containing alloy, hydride, grain size, phase analysis
27

ABSTRACT: The reason why Zr has a beneficial effect on the strength and corrosion resistance of magnesium alloy is apparently because Zr forms stable chemical compounds with Fe and Si, compounds which subsequently settle to the bottom of the smelting crucible and are eliminated together with the slag. The modification of magnesium alloys by Zr is usually explained by the segregation of Zr particles -- grain nuclei -- from the melt through a peritectic reaction. Nevertheless, the role of Zr in this modification has not yet been precisely determined. In this connection, recent studies point to the great role of zirconium hydrides in the change in the physical properties of magnesium alloys.

Card 1/3

L 1055 66

ACCESSION NR: AP5022382

Hence, the authors performed chemical and X-ray investigations of ZrH insoluble in HCl, and found that, in every case, the so-called "insoluble" Zr was not elementary zirconium but represented one or several compounds of Zr with H and with the impurities of magnesium alloys. Thus, examination of the insoluble residue isolated from different melts of the alloy ML10 revealed that in all cases the residue contained no α -zirconium but represented a mixture of phases: the ϵ -phase of ZrH and an unknown phase, apparently a compound of Zr and the impurities present in the alloy. Microstructural examinations indicate that the modifying effect of Zr on magnesium alloy cannot be reduced to the formation of the crystallization centers of α -zirconium, which is isomorphic to magnesium. Apparently the decrease in grain size in Zr-containing magnesium alloys may be based on another mechanism as well, namely: the high-melting components forming in the liquid phase of the first stage of crystallization may serve as the grain nuclei. A similar decrease in grain size is effectuated when the lanthanides (Ce, La, Nd, and others) are added to alloys of the Mg-Zn-Zr or Mg-Zr systems. Orig. art. has: 1 figure, 1 table.

ASSOCIATION: none

Card 2/3

L-1055-66

ACCESSION NR: AP5022382

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, SS

NO REF SOV: 005

OTHER: 004

Card 3/3 DP

LASHKO, N.F.; MOROZOVA, G.I.; TIKHOVA, N.M.

Inoculating magnesium alloys with zirconium and lanthanides.
TSvet. met. 38 no.9:79-82 S '65.

(NRA 18:12)

L 01812-57 EWT(m)/EMP(t)/ETI TJP(e) JH/JD/JG/WB
ACC NR: AP6016027 (N)

SOURCE CODE: UR/0128/66/000/001/0037/0040

AUTHOR: Tikhova, N. M. (Candidate of technical sciences); Blokhina, V. A. (Engineer) 34

ORG: none 28

TITLE: Effect of Zn on the properties of high-temperature alloys of the Mg-Nd-Zr system B

SOURCE: Liteynoye proizvodstvo, no. 1, 1966, 37-40 18 27 27 27

TOPIC TAGS: ternary alloy, magnesium base alloy, zinc, metal hardening, solid solution/
/ML5 alloy, ML9 alloy, ML10 alloy, ML15 alloy

ABSTRACT: The effect of the addition of 0.1-1.0% Zn on the properties of Mg alloys with 1.5-3.5% Nd and 0.5-0.7% Zr, as consisting in hardening through alloying of the solid solution, is investigated. Microstructural examination showed that treatment with Zn within the specified limits does not markedly affect the microstructure of the cast or heat-treated alloy (8-hr hardening at 535°C for alloys with ≤0.8% Zn and 510°C for alloys with 1% Zn, cooling in air with subsequent aging). In cast state the microstructure of the alloys consists of grains of the solid solution of Nd, Zn and Zr in Mg and of an eutectic along the grain boundaries. The composition of the eutectic includes a metallic compound, apparently Mg₁₂Nd. The positive effect of Zn on the ultimate strength of the alloys (Fig. 1, addition of 0.1-1% Zn at 20 and 250°C) is apparently

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UDC: 669.721.5.018.44:669.58

L 04812-67

ACC NR: AP6016027

conditioned by hardening of the solid solution, as confirmed by measurements of the microhardness of that solution (Table 1). This hardening of the solid solution is attributed to the concen-

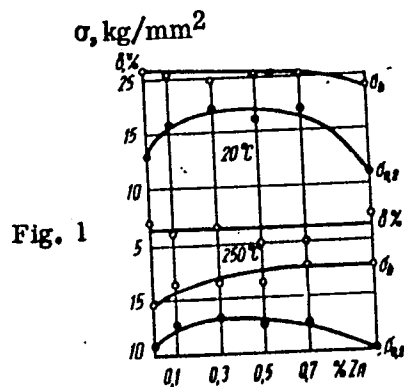


Table 1

alloy composition, %			
Nd	Zn	Zr	H_v kg/mm²
2,17	—	0,57	67,3
2,10	—	0,65	76,5
2,47	0,48	0,69	71,6
2,44	0,5	0,62	79,5

tration of small groups of dissolved atoms at definite lattice sites. The dissolved atoms in limited quantities form, as it were, atmospheres around the dislocations and thus enhance the critical tension of the migration of dislocations, wedging the dislocations in, as it were, and hardening the alloys. Around the lattice vacancies accumulate atoms with various diameters

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L 04812-67

ACC NR: AP6016027

and in combinations which enhance lattice stability. Such accumulations, which reduce the lattice free energy, inhibit the displacement and diffusion processes of transition and increase the strength of alloys. This is exemplified by the addition of Zn: the diameter of a Zn atom is 2.74 Å, i. e. it is 14.3% smaller than that of a Mg atom (3.20 Å) and 36% smaller than that of a Nd atom (~3.74 Å). Apparently the addition of Zn contributes to a stable state of the alloy's crystal lattice. Other positive effects of Zn-treated ML10 alloys, as compared with Zn-free ML5, ML9, ML10, and ML15 alloys, are: better weldability, higher corrosion resistance, higher yield strength. Orig. art. has: 10 figures and 5 tables.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 002

Card

3/3

PLATE I BOOK EXPLANATION SCV/4/64

Vsesoyuznyy nauchnoissledovatel'skiy tsentr metallurgii. Izv. Moskva, 1957
 Metallurgy and its place in the development of the
 First All-Union Conference on Rare-Metal Alloys. Moscow, Metallurgizdat, 1960.
 428 p. 5/150 copies printed.

Spetsialnyy Agenciy: Akademiy nauk SSSR. Institut metallurgii. TSCN
 Institut po redkim metallam pri nauchno-issledovatel'skom tsentre.

Ed.: I. I. Shapovalov, Ed. of Publishing House: O. M. Izmaglov, Tech. Ed.:
 P. G. Isakov, 1957.

PREFACE: This collection of articles is intended for metallurgical engineers,
 physicists, and workers in the machine-building and radio-engineering industries.
 It may also be used by students of schools of higher education.

CONTENTS: The collection contains technical papers which were presented and dis-
 cussed at the Academy of Sciences USSR in November 1957. Results of
 investigations of rare-metal alloys, titanium and copper-base alloys with ad-
 ditions of rare metals are presented and discussed along with investigations of
 titanium, vanadium, niobium, and their alloys. The effect of rare-earth metals
 on properties of magnesium alloys and steel is analyzed. The use of resins
 as a desphosphorizing catalyst, electrophilizing with alcohols, and the use of
 making plugs for microcircuit electrical systems are discussed. The physical
 effect of the addition of certain elements on the properties of high-strength
 steel is examined and alloy with special physical properties (particularly
 semiconductive alloys) are discussed. No personalities are mentioned. Soviet
 and non-Soviet references accompany some of the articles.

PART II. TITANIUM AND COPPER-BASE
 ALLOYS WITH RARE-METAL ADDITIONS

Rare Metals (cont.)

Lobachev, I. I., I. G. Iosadov, and O. I. Iosadov. Wrought Magnesium Alloys
 with Rare-Earth Metals. 209

Libonov, E. M., I. A. Dubinin, and L. A. Afanas'yev. Magnesium Casting Alloys
 with Rare-Earth Metals. 219

Dubina, M. G., M. F. Mol'tsev, I. A. Sviridovskiy, I. M. Piskunov, and I. M.
 Lavrenko. Investigation of Magnesium Alloys Containing Thorium. 227

Afanas'yev, I. A. Magnesium Alloys with Rare Metals. 240

Khokhlov, I. M., and Y. A. Dubinin. Effect of Rare-Earth and Alkali-Earth
 Metals on Mechanical Properties of Magnesium Alloys of the Magnesium-Alumi-
 num and Magnesium-Aluminum-Cadmium Systems. 259

PART V. RARE METALS IN STEELS

Prentiss, S. L. Effect of Rare-Earth Metals on Sulfur Distribution and
 Sulfide Composition in Chromium-Nickel-Molybdenum Steel. 269

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"APPROVED FOR RELEASE: 07/16/2001

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NO REF SOV: 000

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755620017-7"

L 10396-67 EWT(m)/EWP(j) IJP(c) RM
ACC NR: AP7003119

SOURCE CODE: UR/0030/66/039/007/1572/1576

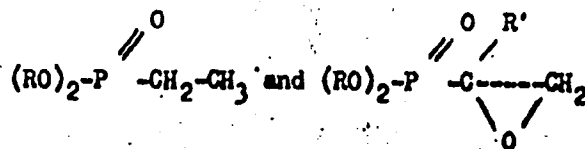
BOGATYREVA, T. K., KAPUSTINA, A. S., KIRPICHNIKOV, P. A., TIKHOVA, Y. V., and
YANOVSKIY, D. M.

ORG: none

"Stabilization of Polyvinylchloride by Esters of 1,2-Epoxy-1-phenylethylphosphinic
and 1,2-Epoxypropylphosphinic Acids. Report 2"

Moscow, Zhurnal Prikladnoy Khimii, Vol 39, No 7, Jul 66, pp 1572-1576

Abstract: The esters of 1,2-epoxy-2-propylphosphinic acid are known to inhibit
the thermal decomposition of polyvinylchloride (PVC). The effect of esters of
phosphinic acid with the following general formula on the thermal decomposition
of PVC was studied to further investigate the stabilizing action of organo-
phosphorus compounds:



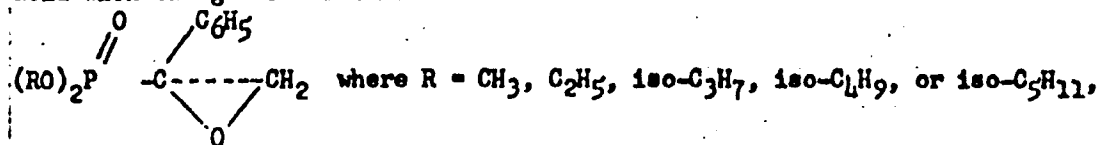
where R = alkyl group, R' = CH₃ or C₆H₅.

Card 1/2

L 10396-67

ACC NR: AP7003119

The previously undescribed esters of 1,2-epoxy-1-phenylethylphosphinic acid with the general formula



were obtained by the dehydrochlorination of the esters of alpha-hydroxy-alpha-phenyl-beta-chloroethylphosphinic acid.

The stabilizing effect of the esters studied during the thermal decomposition of PVC depends on their structure and on the experimental conditions.

The nature of the esters of 1,2-epoxy-1-phenylphosphinic and 1,2-epoxy-2-propylphosphinic acids in the stabilizing action on the thermal decomposition of PVC was established.

It was shown that the action of the esters is determined by the strength of the carbon-phosphorus bond, and the effect on the stability of the ester molecule depends on the nature of the radical connected to the carbon epoxy ring.

Orig. art. has: 1 figure and 2 tables. [JPES: 38,970]

TOPIC TAGS: polyvinyl chloride, ester, phosphinic acid, thermal decomposition

SUB CODE: 07 / SUMM DATE: 09Jun64 / ORIG REF: 003 / OTH REF: 001

Card 2/2670

POPOVA, Z.V.; TIKHOVA, N.V.; RAZYVAYEV, G.A.

Thermal stability of suspension polyvinyl chloride. Vysokom.
soed. 7 no.3:531-535 Mr '65. (MIRA 12:7)

1. Institut khlororganicheskikh produktov i akrilatov.

ACCESSION NO. AR905530

SOURCE: Ref. zh. Khimiya, ADS. 1964

AUTHOR: Popova, Z. V.; Tiknova, N. V.; Vyazankin, N. V.

TITLE: The effect of some organic compounds on the decomposition of polyvinylchloride

CITED SOURCE: Sb. Vysokomolekul. sovedineniya. Khim. svoystva i modifik. polimerov, M., Nauka, 1964, 175-178

TOPIC TAGS: organometallic compound, polyvinylchloride, stabilization, thermal oxidative destruction

ABSTRACT: Analogs of thin-organic stabilizers--tetraethyl-silicon, -germanium, -tin, hexaethyl-di-tin (I) and hexaphenyl-di-lead (II) were studied with respect to their effect on the thermal decomposition of polyvinylchloride (PVC). The rate of thermal-dehydrochlorination of PVC and the activity of the compounds investigated, depend on their chemical structure, concentration, temperature and the presence of O_2 in the system. Hexaethyl-di-tin (I) increases the stability of PVC most.

Card 1/2

L 42387-65

ACCESSION NR: AR5006361

strongly than tetra-derivatives. The compounds investigated are not antioxidants;
in their presence the relative reduction rate of HCl is
greater than that of air. The tetra-derivatives are not antioxidants of HCl
and the tetra-derivatives are not antioxidants of HCl.

SUB CODE: CC

Card 2/2

ACC NR: AR6000274 SOURCE CODE: UR/0081/65/000/014/S031/S032

AUTHORS: Popova, Z. V.; Tikhova, N. V.; Shtarkman, B. P.

TITLE: Effect of lead compounds on the thermal decomposition of polyvinyl chloride

SOURCE: Ref. zh. Khimiya, Abs. 14S200

REF SOURCE: Tr. po khimii i khim. tekhnol. (Gor'kiy), vyp. 2 (10), 1964, 322-325

TOPIC TAGS: lead compound, polyvinyl chloride, thermal decomposition, stabilizer

ABSTRACT: Interaction of Pb^{+2} and Pb^{+4} compounds with polyvinylchloride (PVC) upon heating in a neutral medium was investigated. Of the Pb compounds tested there were yellow (I) and red (II) PbO , a mixture of I and II with stearic acid (III), PbO_2 , $PbCl_2$, and Pb stearate (IV). It was shown that the effect of PbO , PbO_2 , $PbCl_2$, and

IV on the rate of thermal dehydrochlorination of PVC in an inert medium, as well as their HCl acceptor properties, are functions of the active O_2 content in PVC.

Activity of I-IV differs when tested on the same sample of PVC. A true inhibition of thermal dehydrochlorination is observed upon heating PVC in the presence of I-IV in an inert medium; the length of the true induction period is independent of the acceptor properties of the additive. It is assumed that the effect of I-IV in stabilizing PVC is not limited to the suppression of the harmful effect of HCl .

L. Andreyev [Translation of abstract]

Card 1/1 SUB CODE: 07, 11

L 46224-66 EWP(j) AT/RM
ACC NR: AT6034084

SOURCE CODE: HU/2502/65/045/004/0301/0311

AUTHOR: Fritz, Denes--Fritts, D.; Garzo, Gabriella; Szekely, Tamas--Sekei, T.;
Till, Ferenc

ORG: Department of General and Inorganic Chemistry, L. Eotvos University, Budapest;
Research Group for Inorganic Chemistry, Hungarian Academy of Sciences, Budapest

TITLE: Anomalous response of the flame ionization detector to organosilicon compounds

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 45, no. 4, 1965, 301-311

TOPIC TAGS: organosilicon compound, gas chromatography, chemical laboratory apparatus

ABSTRACT: An inversion of the gas chromatographic peaks of organosilicon compounds can be observed when detection is done by flame ionization detector. This effect also appears under conditions where a hydrocarbon gives normal and well-evaluable peaks. The following factors have been studied concerning their influence of the peak inversion: flow rates of the fuel and scavenging gases, the chemical nature of the sample, and the voltage of the detector. The inverted peaks permit the gas-chromatographic estimation of the characteristic C/Si ratio of an unknown organosilicon compound. A flame ionization detector operating with a mixed hydrogen-hydrocarbon flame detects organosilicon compounds as negative peaks. On this basis, such detectors are recommended for use in the qualitative analysis of organosilicon compounds. Orig. art. has: 6 figures and 4 tables. [Orig. art. in Eng.] [JPLS: 33,906]

SUB CODE: 07 / SUBM DATE: 15Dec64 / OTH REF: 007

Card 1/1 mjs

L 65124-65 EWP(a)/EWT(m)/EWP(1)/EWP(b) WH

ACCESSION NR: AP5021588

IR/0286/65/000/013/0058/0059

AUTHORS: Zhukovskaya, Ye. A.; Kalechina, N. A.; Kresin, V. I.; Trusovtseva, M. S.; Tikhova, N. V.

TITLE: Apparatus for depositing current-conducting films on glass. Class 32, No. 172458

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 58-59

TOPIC TAGS: film processing, thin film circuit, industrial blower, glass coating

ABSTRACT: This Author Certificate presents an apparatus for depositing current-conducting films on glass. The apparatus contains supports with blowers, plates, fixing connectors, and a reducer with an electric motor. To improve the quality of the current-conducting film deposition at a desired resistance gradient, and to improve the conditions for cooling a plate and for reducing its deformation, the apparatus contains a crankshaft-operated rocking device with two crankshafts mounted on the fingers of a shaft. One of the crankshafts is geared to the support for the blowers and the other to the reducer.

ASSOCIATION: none
Card 1/2

L 651211-65
ACCESSION NR: AF5021588

SUBMITTED: 13Apr64

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

334
Card 2/2

1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX									
ca										8									
Description of the Umshunskii tungsten and deposit. T. G. Tikhonov. <i>Ressursa Nede (Subterranean Prospects)</i> 3, No. 3, 15-23 (1935). A wolframite ore containing W 76.63, Fe 17.43, MnO 7.10, Ca 0.3 and 84% U.S.P. was found in Umshunsk, located about 207 km from Nizhny, Siberia. A. A. Bichling																			
ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
EDITH STEINBERG										EDITH STEINBERG									
EDITH STEINBERG										EDITH STEINBERG									

TIKHOVA, T.S.

Dissertations on industrial hygiene, physiology of work and related disciplines (1958-1959) a brief survey. Gig.i san. 25 no.11:111-114 N '60. (MIRA 14:1)

1. Iz kafedry gigiyeny truda I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(BIBLIOGRAPHY—INDUSTRIAL—HYGIENE)

TIKHOVA, V.

Awards for the participants of the Exhibition of Achievements of
the National Economy of the U.S.S.R. Torf. prom. 38 no.7:6
'61. (MIRA 14:12)

(Peat industry)
(Moscow Exhibitions)

TIKHOVA, V.

Seminars at the Torf Pavilion. Torf. prom. 38 no.6:38 '61.
(MIRA 14:9)
(Peat industry—Exhibitions)

TIKHOVA, V.A.

Innervation of the ciliary muscle. Vest. oft., Moskva
32 no.6:18-25. Nov-Dec 1953. (CJML 25:5)

1. Of the Eye Clinic (Acting Director -- Docent A.N. Tszikev) and the Department of Histology (Head -- Prof. N.G. Kolesov, Corresponding Member AMS USSR) of Saratov Medical Institute.

TIKHOVA, V. A., kandidat meditsinskikh nauk.

Eye injuries in agriculture and their prevention. Sov. med. 19 no.11:
53-56 N '55 (MLRA 9:1)

1. Iz kliniki glaznykh bolezney Saratovskogo meditsinskogo instituta
(dir.-prof. I. F. Vorobyev).

(EYE WOUNDS AND INJURIES,
in agricultural workers, prev.)

(AGRICULTURE
eye inj., prev.)

(WOUNDS AND INJURIES,
eye in agricultural workers, prev.)

TIKHOVA, V. A.

TIKHOVA, V. A. -- "Enervation of the Ciliary Muscle." Acad Sci USSR,
Inst of Physiology imeni I. P. Pavlov, Leningrad, 1956. (Dissertations
for the degree of doctor of Medical Sciences.)

KNIZHNAYA LETOPIS
No. 41, October 1956

20-5-58/67

AUTHOR TIKHOVA V.A.

TITLE A Contribution to the Problem of Pigment Cell Innervation.
(K voprosu ob innervatsii pigmentnykh kletok.- Russian)

PERIODICAL Doklady Akademii Nauk SSR 1957, Vol 113, Nr 5, pp 1154-1157 (U. S.S.R.)

ABSTRACT The author succeeded in observing the innervation of pigment cells of normal cats and cats that had a unilateral extirpation of the upper sympathetic cervical ganglion; this was the case 24, 48, 72 and 96 hours after operation. The cats were killed with ether. Although, according to publications, the pigment cells are activated by the sympathetic nervous system, experimental morphological proof for this is still lacking. On preparations from operated cats the pigment cells of the ciliary muscle and of the sclera were found to undergo great morphological changes, on which occasion pigment granules are displaced. Finally, the disintegration process led to a complete decay of the cells and to the escape of the pigment granules into the surrounding tissue. The myelinless nervous fibres which reach the pigment cells undergo different degenerative changes after extirpation of the upper cervical ganglion. The experimental material obtained indicates that the pigment cells of the ciliary muscle and of the sclera are activated by the sympathetic fibres of the upper

CARD 1/2

A Contribution to the Problem of Pigment Cell Innervation.

20-5-58/67

cervial ganglion. Furthermore, there was ocular proof that it is the myelin-containing fibres that cause this innervation; they end at the cell-body with ringshaped nerve endings. The question for the origin of the nerve-fibres, related to the pigment cells, remained open; it can, of course, only be solved experimentally.

(4 illustrations, 6 citations from Slavic publications.)

ASSOCIATION: Physiologic Institute "I.P. Pavlov" of the Academy of Science of the USSR.

PRESENTED BY: K.M. BYKOV, Member of Academy.

SUBMITTED: 15.1. 1957.

AVAILABLE: Library of Congress.

CARD 2/2

TIKHOVA, Vera Aleksandrovna

Innervation by (tsiliarnoy) muscle

Dissertation for the degree of Doctor of Medical Science Defending in
Soviet Leningrad "N.I.I."Physiology "AN" "S.S.S.R", 1957

USSR / Human and Animal Morphology (Normal and
Pathological). Nervous System. Peripheral
Nervous System.

5

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16934

Author : Tikhova, V. A.

Inst : Not given

Title : Innervation of the Ciliary Muscle

Orig Pub : Probl. fiziol. optiki, 1958, 12, 398-408

Abstract : The nerve elements of the ciliary muscle (CM) of the eye are described in 6 adult cats and 1 albino rabbit. The variety of receptor apparatuses which testify to the diversity of their functions is noted. The innervation of CM vessels is described. In experiments on 5 cats with unilateral injury of the eye in the region of the ciliary body, a latently

Card 1/3

USSR / Human and Animal Morphology (Normal and
Pathological). Nervous System. Peripheral
Nervous System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16934

passing reaction in the healthy eye was established. In 26 experiments with unilateral removal of the upper cervical sympathetic ganglion, the changes in the eye of the same side are described, which allow one to assert that in particular the pigment cells are also innervated by sympathetic fibers; the degeneration of nerve cells in the CM of the eye of the other side, noted with this, indicates cross-innervation of the eyes by postganglionic fibers from the upper cervical ganglion. Finally, in 16 experiments with unilateral cauterization of the gasserian ganglion, it was shown that it participates

Card 2/3

USSR / Human and Animal Morphology (Normal and
Pathological). Nervous System. Peripheral
Nervous System. S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16934

in the afferent innervation of CM, the
sclera and cornea; furthermore, this inner-
vation has a crosswise character.

Card 3/3

43

USSR / Human and Animal Morphology (Normal and Pathological).
Nervous System. Peripheral Nervous System.

S

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 40617

Author : Tikhova, V. A.

Inst : Academy of Sciences USSR

Title : On the Problem of Innervation of Pigmented Cells

Orig Pub : Dokl. AN SSSR, 1957, 113, No 5, 1154-1157

Abstract : The nervous elements of the ciliary muscle and of the sclera of eyes of healthy cats as well as in cats following the unilateral extirpation of the superior cervical ganglion (within 24 - 96 hours following the operation) were studied by the method of impregnation of Bil'shovskiy-Gross. In the operated animals those nerve fibers of the ciliary muscle and of the sclera which have a relation to the pigmented cells (PC) degenerated; and those cells ceased to impregnate and

Card 1/2

53

USSR / Human and Animal Morphology (Normal and Pathological).
Nervous System. Peripheral Nervous System.

S

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 40817

were damaged. We gather from this that the PC of the studied organs are innervated by sympathetic fibers from the superior cervical ganglion. It was demonstrated that the PC also possess a sensory innervation. The PC are innervated from arborizations of myelinated nerve fibers forming polyvalent receptors and ending on the body of the PC by nerve endings in the form of ringlets.

Card 2/2

TIKHOVA, V.A.

Innervation of the ciliary muscle. Trudy Inst. fiziol. 7:573-579
'58. (MIRA 12:3)

1. Laboratoriya morfologii (zap. - N.G. Kolosov). Instituta fiziologii
im. I.P. Pavlova AN SSSR.
(CILINARY BODY--INNERVATION)

Name: TIKHOVA, Vera Aleksandrovna
Dissertation: Innervation of the musculus ciliaris
Degree: Doc Med Sci
Affiliation: Saratov State Med Inst
Defense Date, Place: 5 Apr 57, Council of Inst of Physio-
logy imeni Pavlov, Acad Sci USSR
Certification Date: 19 Oct 57
Source: BMVO 23/57

USSR/Human and Animal Morphology (Normal and
Pathological). Nervous System. Periph-
eral Nervous System.

S-2

Abs Jour: Ref Zhur.-Biol., No 16, 1958, 74296

Author : Tikhova, V. A.

Inst : AS USSR.

Title : Sympathetic Innervation of Ciliary Muscle
and Sclera.

Orig Pub: Dokl. AN SSSR, 1957, 116, No 1, 146-148

Abstract: Unilateral removal of superior cervical sym-
pathetic ganglia was performed on 26 cats.
As a result of surgery, the post-ganglionic
nerve fibers (NF) of the ciliary muscle and
sclera of the eye degenerated on the operated
side. The most demonstrative pictures of dis-

Card : 1/2

USSR/Human and Animal Morphology (Normal and
Pathological). Nervous System. Periphe-
ral Nervous System.

S-2

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74296

integration of NF were observed after 48-96 hours. Degenerated medullated NF in the bundles of the external and middle plexus of the ciliary muscle and thin, nonmedullated NF which run to muscular fibers and capillaries are sympathetic. On the contralateral side, degeneration is discovered also, although of a somewhat smaller number, of NF. This points to the cross-innervation of the eyes by postganglionic sympathetic fibers from upper cervical ganglia. -- A. S. Gurvich

Card : 2/2

PIANOVA, V. A.

"Innervation of the Ciliary Muscle."

dissertation defended for the degree of Doctor of Biological Sciences at the
Inst. for Physiology im. I. P. Pavlov.

Defense of Dissertation (Jan-Jul 1957)
Sect. of Biological Science
Vest. AN SSSR, 1957, v. 27, No12, pp. 118-120

AUTHOR: None Given. 30-12-37/45
 TITLE: Defense of Dissertation (Zashchita dissertatsiy).
 January-July 1957 (Yanvar' - iyul' 1957).
 Section of Biological Science (Otdeleniye biologicheskikh nauk).
 PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr. 12, pp. 118-120 (USSR).
 ABSTRACT: At the Institute for Physiology imeni I. P. Pavlov (Institut fiziologii imeni I. P. Pavlova). Application for the degree of Doctor of Biological Sciences: N. A. Verzhbinskaya - Material concerning the evolution of the energetic marrow metabolism in vertebrae. (Materialy po evolyutsii energeticheskogo obmena mozga pozvonochnykh). Application for the degree of Doctor of Medical Sciences: P. I. Norkunas - Material concerning the Pathogenesis in the treatment of gastric and duodenal ulcers (Materialy o patogeneze i lechenii yazvennoy bolezni zheludka i dvenadtsatipervatnoy kishki). V. A. Tikhova - Innervation of the ciliary muscle (Innervatsiya tsil'yar'noy myshtsy). Applications for the degree of Candidate of Biological Sciences: G. N. Arkhipov - The fistula method employed for the study of the physiology of the genital organs of horses (Fistul'nyy metod izucheniya fiziologii genital'nogo apparata loshadi). K. I. Kaveshnikova - The reflex effect of the udder on the function of the kidneys (Reflektornoye vliyaniye

Card 1/5

Defense of Dissertation.

January-July 1957.

Section of Biological Sciences.

30-12-39/45

s vymeni na funktsiyu pochki). N. D. Matyushkina - On the peculiar features of thermoregulation in the action of muscles and the hardening training of the body (Ob osobennostyakh termoregulyatsii pri myshechnoy deyatel'nosti i pri zakalivani organizma k kholodu i teplu). Yu. G. Troshikhina - On the problem of the interrelations between motor- and digestive relative reflexes (K voprosu o vzaimodeystvii dvigatel'nykh i pishchevykh usloynykh refleksov). Applications for the degree of Candidate of Medical Sciences: L. B. Dmitriyev - Radiological investigation of the structure and of the adaption of the vocal apparatus of singers (Rentgenologicheskoye issledovaniye stroyniya i prispособleniya golosovogo apparata u pevtsov). M. T. Ishanova - Modification of vascular reflexes of patients suffering from ulcers under the influence of haemotherapy (Izmeneniye sosudistykh refleksov u bol'nykh yazvennoy boleznyu pod vliyaniyem gamoterapii). A. V. Samsova - The influence of testosterone propionates on the relatively reflecting activity of the aging organism (Vliyaniye testosteronpropionata na uslovnoreflektornuyu deyatel'nost' stareyushchego organizma). L. P. Unger - On the importance of infection in the development of schizophrenia (O znachenii infektsii v razvitii shizofrenii). V. A.

Card 2/5

Defense of Dissertation.

January-July 1957.

30-12-39/45

Section of Biological Sciences.

Chernichenko - On some modifications in the functional state of the nervous system of the organism immediately after treatment with ionizing radiation (O nekotorykh izmeneniyakh v funktsional'nom sostoyanii nervnoy sistemy organizma neposredstvenno posle vozdeystviya ioniziruyushchey radiatsii).

At the Institute for Plant Physiology imeni K. A. Timiryazev (Institut fiziologii rasteniy imeni K. A. Timiryazeva). Application for the degree of Doctor of Biological Sciences: E. Z. Gareyev - Peculiar features of the formation of the buds of apple trees (Osobennosti obrazovaniya pochek u yabloni). Application for the degree of Candidate of Biological Sciences: G. V. Lebedev - Physiological characteristic features of the tea plant when irrigated under the conditions prevailing in the Lenkoran zone of the Azerbaidzhan SSR (Fiziologicheskiye osobennosti chaynogo rasteniya pri croshenii v usloviyakh Lenkoranskoy zony Azerbaydzhanskoy SSR). G. R. Mikhaylova - Cytophysiological analysis of processes occurring in plants by injury and graft (Tsitofiziologicheskiy analiz protsessov, protskhodyashchikh pri raneniyakh i privivkakh rasteniy). N. M. Nazirov - Characteristic features of the development of the stages of some kinds of industrial cotton (Osobennosti stadiynogo raz-

Card 3/5

Defense of Dissertation.

January-July 1957.

30-12-39/45

Section of Biological Sciences.

vitiya nekotozykh sortov promyshlennogo khlopchatnika). R. A. Svarinskaya - Physiological changes in potatoes as a result of the action of maleic acid hydracid (Fiziologicheskiye izmeneniya u kartofelya pri vozdeystvii gidrazida maleinovoy kisloty). Z. M. Shvedskaya - The influence exercised by mineral nutrition upon the physiological properties of plants (Vliyaniye mineral'nogo pitaniya na izmenchivost' fiziologicheskikh svoystv rasteniya).

At the Soil Institute imeni V. V. Dokuchayev (Pochvennyy institut imeni V. V. Dokuchayeva). Application for the Degree of Doctor of Agricultural Sciences: V. N. Smirnov - The soil of the Mari ASSR and the conditions of creation (Pochvy Mariyskoy ASSR i usloviya ikh obrazovaniya). Application for the degree of Candidate of Agricultural Sciences: F. R. Zaydel'man - Meliorative properties of the soil stream with silica alluvium and means to be employed for its agricultural utilization in the irrigated agriculture of Siberia (according to the example of the Khakass Region and Tuva) (Meliorativnyye svoystva pochvy, blizko podstilayemykh gilechnikovym allyuviyem, i puti ikh sel'skokhozyaystvennogo osvoyeniya v selskoyem zemledelii Sibiri (na primere Khakassii i Tuvy). A. I. Lyutin - The marshy soil of the Sylva river (Pochvy porymy reki Sylvy). Kh. M. Mustafayev - Increase of the ef-

Card 4/5

Defense of Dissertation.

January-July 1957.

30-12-39/45

Section of Biological Sciences.

efficacy of strips of woodland in the struggle against the erosion of the soil in the Kuybyshev Trans-Volga area. (Povysheniye effektivnosti lesnykh poiskov v bor'be s eroziyey pochvy v Kuybyshevskom Zavolzh'ya). I. K. Penskoy - The agricultural utilization of irrigable and irrigated soils Sel'skokhozyaystvennoye isvoyeniye promyvayemykh i promytykh zemel').

AVAILABLE: Library of Congress.

1. Biology 2. Botany 3. Soils

Card 5/5

TIKHOVA, V.A.

Autonomic innervation of the ciliary muscle and the sclera. Dokl. AN
SSSR 116 no.1:146-148 S-O '57. (MIRA 11:3)

1. Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR. Pred-
stavleno akademikom K.M. Bykovym.
(CILIA AND CILIARY MOTION) (SCLERA--INNERVATION)

AUTHOR: Tikhova, V. A.

20-1-41/44

TITLE: The Sympathetic Innervation of the Ciliary Muscle and the Sclera
(Simpaticeskaya innervatsiya tsiliarnoy myshtsy i sklery).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 1, pp. 146-148 (USSR).

ABSTRACT: The problem mentioned in the title is insufficiently studied. Published data on this problem are contradictory. In the publications known to the author there are no data on the spreading and the endings of the post-ganglionic sympathetic fibers. In order to study this problem, the author employed the degeneration method by unilaterally removing the upper cervical ganglion in cats. The analysis of the experimental results yielded a picture of the degeneration of post-ganglionic fibers in the ciliary muscle and in the sclera of the eye on the side operated upon. Already 24 hours after the operation a swelling and argentophily developed. The most demonstrative signs of this process were to be seen 48 and 96 hours after the operation. As the degeneration developed due to the removal of the upper cervical ganglion, the author assumes that the sympathetic nerve fibers participate in the innervation of the ciliary muscle and the sclera. From the preparations is to be seen that medullated nerve fibers in bundles of the outer and the middle plexus as well as the

Card 1/3

The Sympathetic Innervation of the Ciliary Muscle and the Sclera. 20-1-41/44

thin nerve fibers which innervate the cells of the muscular tissue and the capillaries are subject to degeneration. Thus the nerve fibers degenerating after removal of the upper cervical ganglion can only be postganglionic-sympathetic. The author's tests further prove that the ciliary muscle also possesses a sympathetic innervation. Thus a double innervation of this muscle is to be assumed: a parasympathetic and a sympathetic one. In order to get a correct idea of the interrelations of the sympathetic nervous system of both eyes, the eye on the non-operated side was also studied (control). Here a very interesting fact concerning the laws governing the degeneration of the nerve fibers in the ciliary muscle and in the sclera was discovered. Less fibers were degenerated here than in the eye of the operated side. The degree and the times of degeneration, however, were in agreement. A degeneration of these fibers on both sides upon a unilateral removal of the upper cervical ganglion is only possible in the case of crossed innervation. The cause of the degeneration in the control eyes can here not be considered as reaction on the operative treatment, as in this case the degree of degeneration would be different in both eyes.

Card 2/3

There are 4 figures and 3 Slavic references.

The Sympathetic Innervation of the Ciliary Muscle and the Sclera. 20-1-41/44

ASSOCIATION: Institute of Physiology, AN SSR imeni, I.P. Pavlov (Institut fiziologii imeni I. P. Pavlova Akademii nauk SSSR).

PRESENTED: By K. M. Bykov, Academician, March 19, 1957.

SUBMITTED: March 8, 1957.

AVAILABLE: Library of Congress.

Card 3/3

TIKHOVA, V.A.

On pigment cell innervation. Dokl. AN SSSR 113 no.5:1154-1157
Ap '57. (MLRA 10:7)

1. Institut fiziologii imeni I.P. Pavlova Akademii nauk SSSR.
Predstavleno akademikom K.M. Bykovym.
(SCLERA, INNERVATION)

GONIK, A.A.; TIKHOVA, Ye, M.

Use of emulsifying detergent solutions for cleaning the inner
surfaces of petroleum pipelines prior to their painting.

Lakokras. mat. 1 ikh prim. no.3:39-42 '61. (MIRA 14:6)

(Cleaning compounds)

(Petroleum—Pipelines)

TIKHOVA, Ye.P.

Sulfate absorption by soils under field conditions. Nauch. dokl.
vys. shkoly; biol. nauki no.1:198-203 '60. (MIRA 13:2)

1.Rekomendovana kafedroy pochvovedeniya Voronezhskogo gosudarstven-
nogo universiteta.

(Soil absorption) (Sulfates)

ADERIKHIN, P.G.; TIKHOVA, Ye.P.; CHURILINA, Yu.G.

Phosphorus forms in the soils of Central Chernozem Provinces.
Pochvovedenie no.7:68-74 J1 '64. (MIRA 17:8)

1. Voronezhskiy gosudarstvennyy universitet.

ORIG. NO. : USSR
 SUBJECT : Soil Science. Physical and Chemical Properties
 of Soil
 ORIG. NO. : Izv. Akad. Nauk - Biologiya, No. 5, 1959, No. 20077

Author : Tikhova, Ye. P.
 Title : --
 Title : Significance of Exchangeable Cations in
 SO_4 Soil Uptake

ORIG. PUB. : Pochvovedeniye, 1958, No. 2, 57-61

ABSTRACT : Determinations were made of SO_4^{2-} ion absorption by turf-Podzolic, chestnut soils, and leached Chernozem saturated with various cations (H^+ , Na^+ , Ca^{2+} , Mg^{2+} , Fe^{3+}). Absorption of SO_4^{2-} grows in relation to the nature of the absorbed cations in the order $Na^+ < Ca^{2+} < H^+ < Fe^{3+} < Mg^{2+}$, the absorptive capacity of the mud fraction of the soils is subject to the same regularity. The mud fractions of various soils have different

CARD : 1/2

CATEGORY :

ABS. JOUR.: Ref Zhur -Biologiya, No. 5, 1959, No. 20077

AUTHOR :
INST. :
TITLE :

ORIG. PUB.:

ABSTRACT : absorption capacities of SO_4^{2-} which follow
in diminishing order in turf-Podzolic,
chestnut, Chernozem; this points to a different
qualitative composition of the mud fractions
in the soils being studied. The mechanism of
 SO_4^{2-} soil uptake with different absorbed
cation composition are examined. This study
was conducted in the Voronezh University.
-- V.A. Rabinovich

CARD: 2/2

TIKHOVA, Ye.P.

Sulfate mobilization in leached Chernozem soils. Nauch.dokl.vys.
shkoly; biol.nauki no.4:192-195 '62. (MIRA 15:10)

1. Rekomendovana kafedroy pochvovedeniya Voronezhskogo gosudar-
stvennogo universiteta.
(CHERNOZEM SOILS) (SOILS--SULFUR CONTENT)

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72583.

Author : Tikhova, Ye. P.

Inst : Voronezh University.

Title : Absorption of Sulfur from the Soil by Plants.

Orig Pub: Tr. Voronezhsk. un-ta, 1956, 56, No 3, 49-58.

Abstract: False flax, spring wheat, vetch and corn were raised on an alkaline chernozem, which contains 0.133% of common SO_3 . The change of the content of water-soluble SO_3 in the soil was studied, as was the accumulation of SO_3 in the different phases of plant growth after the application of $(\text{NH}_4)_2\text{SO}_4$ at 3 c/ha or P_c at 6 c/ha. Fertilization increased the harvest of the plants by 10-25%. Without fertilization, false flax drew out of the soil 28.1

Card 1/2

12

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72583.

Abstract: kg/ha of SO_3 ; with the application of $(\text{NH}_4)_2\text{SO}_4$ - 33.4 kg/ha; of simple P_c - 33.5 kg; of granulated P_c - 35.3 kg/ha. For wheat, the corresponding numbers consisted of 11.8 13.2; 17.0 and 14.6 kg/ha SO_3 , vetch - 44.2; 87.5; 77 and 90.6 kg, for corn - 14.0; 18.5; 20.4 kg/ha SO_3 . In vetch, the absorption of SO_3 with age increased; in the remaining plants, it decreased. In wheat and vetch, the greatest quantity of SO_3 was found in the vegetative mass; in false flax and corn, in the grain. -- B. P. Plashkov.

Card 2/2

TIKHOVA, Ye.P.; CHURILINA, Yu. G.

Effect of subsoiling on the physicochemical and physical properties of soils on the "Razdol'ye" State Farm in Voronezh Province. Nauch. dokl. vys. shkoly; biol. nauki no.3:199-203 '60.

(MIRA 13:8)

1. Rekomendovana kafedroy pochvovedeniya Voronezhskogo gosudarstvennogo universiteta.

(Voronezh Province---Soils)

(Tillage)

TIKHOVA, Ye.P.; ADERIKHIN, P.G.

Dynamics of nutrients in soil and their uptake by corn during the vegetative period. Pochvovedenie no.3:99-105 Mr '59. (MIRA 12:11)

1. Voronezhskiy gosuniversitet.

(Soil chemistry) (Plants--Nutrition) (Corn (Maize))

ADERIKHIN, P.G.; TIKHOVA, Ye.P.

Changing the color of the soil surface in the North [with summary
in English]. Pochvovedenie no.10:70-75 O '58. (MIRA 11:10)

1. Voronezhskiy gosudarstvennyy universitet.
(Soil temperature)

ZURKOV, P.E., prof., doktor tekhn. nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR; TOGUNOV, Yu.V., dotsent, kand. tekhn. nauk; YELENSKIY, S.I., kand. tekhn. nauk; KONDRATENKO, V.P.; TIKHOVIDOV, A.F., dotsent; RUDNIK, M.I., gornyy inzh.; KORKUNOV, G.S., gornyy inzh.; RACHITSKIKH, L.G., gornyy inzh.; ZAGURAYEV, V.G., gornyy tekhnik

Concerning the book by N.V. Mel'nikov and L.N. Marchenko "Energy of the blast and construction of the charge". Ugol' 39 no.10:62-63 0 '64. (MIRA 17:12)

1. Nachal'nik kombinata Chelyabinskugol' (for Kondratenko).
2. Glavnyy inzh. Magnitogorskogo rudnika (for Tikhovodov).
3. Permskiy politekhnichaskiy institut (for Rudnik, Korkunov).
4. Bereznikovskiy sodovyy zavod (for Rachitskikh, Zagurayev).

TISHCHENKO, V. G.

"Concerning Structural Members Under Large Loads for a Short Period." Thesis for degree of Cand. Physico-Mathematical Sci. Sub 26 Apr 50, Geophysics Inst Acad Sci USSR.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

TISHCHENKO, V.G

USSR/Geophysics - Conferences

Card 1/1 Pub. 124 - 37/45

Authors : Tishchenko, V. G., Cand. of Phys. Math. Sc.

Title : ~~Conference on earthquakeproof structures~~
Conference on earthquakeproof structures

Periodical : Vest. AN SSSR 2, 101-102, Feb 1955

Abstract : The problem involved in the construction of earthquakeproof buildings were analyzed at the conference of the Geophysics Institute of the Academy of Sciences USSR in Erevan, Arm. SSR.

Institution :

Submitted :

SAVARENSKIY, Ye.F., doktor fiz.-mat. nauk; TISHCHENKO, V.G.; SVYATKOVSKIY, A.Ye.; DOBROVOL'SKIY, A.D.; ZHIVAGO, A.V.; GUBOV, K.P., red. izd-va; POLESITSKAYA, S.M., tekhn. red.

[Tsunamis of November 4-5, 1952] TSunami 4-5 noiabria 1952 g.
Moskva, Izd-vo Akad. nauk SSSR, 1958. 60 p. (Akademiya nauk
SSSR, Sovet po seismologii, Biulleten' no.4). (MIRA 11:6)
(Pacific Ocean--Tidal waves)

PA 174T69

-USSR/Physics - Statistical Mechanics 21 Sep 50
New Techniques
Gas Discharge

"Spectral Method for Investigating Statistical Phenomena in Gas Discharge," S. I. Borovitskiy, Ye. I. Tikhova, Physicotech Inst, Gor'kiy State U

"Dok Ak Nauk SSSR" Vol LXXIV, No 3, pp 449-452

Proposes new and simple subject method based on investigation of spectrum of flow occurring in discharge tube when its electrodes are supplied with periodic (e.g., sinusoidal) voltage. As S. S. Gorelik showed theoretically ("Iz Ak Nauk, Ser

174T69

USSR/Physics - Statistical Mechanics 21 Sep 50
(Contd)

"Iz," Vol XIV, 174) and authors verified, this spectrum consists of 2 parts: discrete lines and continuous spectrum. Submitted 14 Jun 50 by A. A. Andronov.

174T69

TIKHOVA, Ye. I.

TIKHOVA, Y.

Repair of defects of the dura mater with specially prepared umbilical tissue under experimental conditions. Vop. neirokhir. 19 no.1:53-55
Ja-F '55. (MLRA 8:2)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii.

(DURA MATER, surgery,

exper. implant of umbilical grafts)

(TRANSPLANTATION,

umbilical grafts in dura mater in animals)

(UMBILICAL CORD, transplantation,

exper. grafting into dura mater)

GONIK, A.A.; TIKHOVA, Ye.M.

Corrosion of oil field equipment in reservoir waters and how to
control it. Neft. khoz. 42 no.2:43-48 F '64. (MIRA 17:3)

TIKHOVA, Ye.P.

Role of exchange cations in the SO_4^{2-} absorption of soils [with
summary in English]. Pochvovedenie no.2:57-61 F '58. (MIRA 11:3)

1. Voronezhskiy gosudarstvennyy universitet.
(Soil chemistry)

VINOGRADOV, V.S., inzh.; AL'TSHULER, M.A., kand. tekhn. nauk; POLYAKOV, V.G., inzh.; KUROCHKIN, A.N., inzh.; KARMAZIN, V.I., doktor tekhn. nauk; ZAIKIN, S.A., inzh.; OSTROVSKIY, G.P., inzh.[deceased]; NAUMENKO, P.I., inzh.; BOBRUSHKIN, L.G., inzh.; RUSTAMOV, I.I., inzh.; SHIFRIN, I.I., inzh.; GOLOVANOV, G.A., inzh.; KRASOVSKIY, L.A., inzh.; TSIMBALENKO, L.N., inzh.; RAVIKOVICH, I.M., inzh.; BAZILEVICH, S.V., kand. tekhn.nauk; ZORIN, I.P., inzh.; ZUBAREV, S.N., inzh.; TIKHOVIDOV, A.F., inzh.; SHITOV, I.S., inzh.; GAMAYUROV, A.I., inzh.; KUSEMBAYEV, Kh.N., inzh.; DEKHTYAREV, S.I., inzh.; VORONOV, I.S., inzh.; BURMIN, G.M., inzh.; BARYSHEV, V.M., inzh.; GOLOVIN, Yu.P., inzh.; MARCHENKO, K.F., inzh.; RYCHKOV, L.F., inzh.; NESTERENKO, A.M., inzh.; KABANOV, V.F., inzh.; PATRIKEYEV, N.N., inzh.[deceased]; ROSSMIT, A.F., inzh.; SOSEDOV, O.O., inzh.; POKROVSKIY, M.A., inzh., retsenzent; POLOTSK, S.M., red.; GOL'DIN, Ya.A., glav. red.; GOLUBYATNIKOVA, G.S., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Iron mining and ore dressing industry] Zhelezorudnaya promyshlennost'. Moskva, Gosgortekhzdat, 1962. 439 p.

(MIRA 15:12)

1. Moscow. Tsentral'nyy institut informatsii chernoy metallurgii.
(Iron mines and mining) (Ore dressing)

TIKHOVIDOV, A. F., gornyy inzh.

Drill breakdowns. Gor. zhur. no.10:35-39 0 '62.
(MIRA 15:10)

1. Magnitogorskiy rudnik.

(Boring machinery)

TIKHOVIDOV, A.F., dotsent

Air space and simple explosives are important potentials for
increasing the efficiency of breaking by blasting. Vzryv.
delo no.54/11:241-244 '64. (MIRA 17:9)

1. Magnitogorskiy rudnik.